

FIG. 1 PRIOR ART

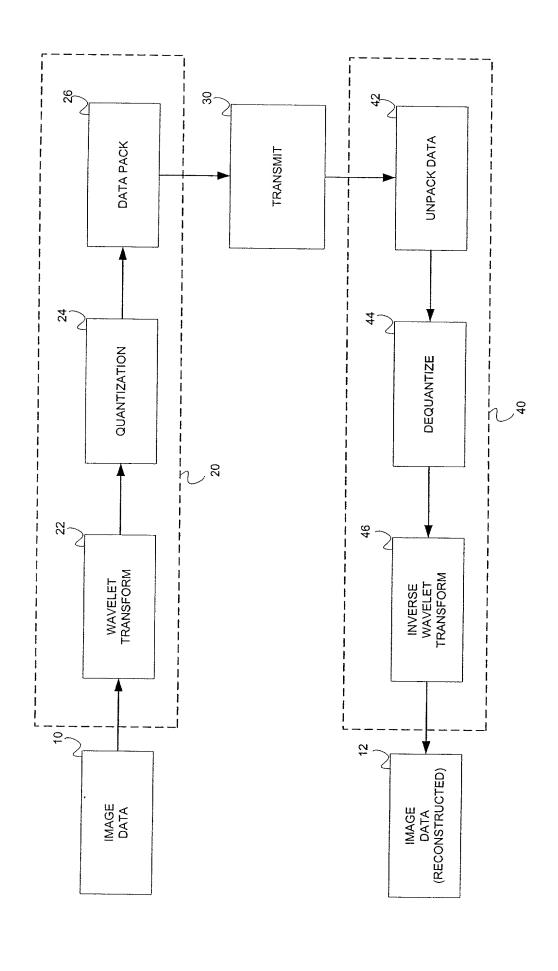


FIG. 2

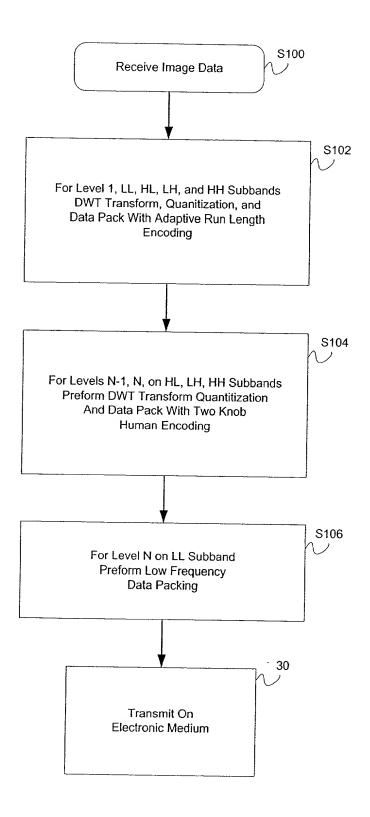


FIG. 3

LLS HLS LHS HHS LH4 HH4	HL3	HL2	
LH3	нн3		
LH	12	НН2	HL1
LH1			нн

FIG. 4

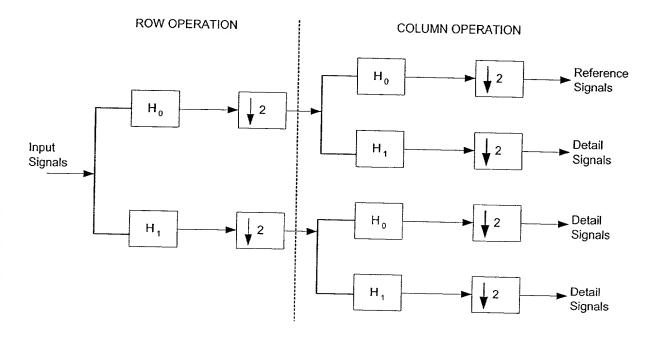


FIG. 5

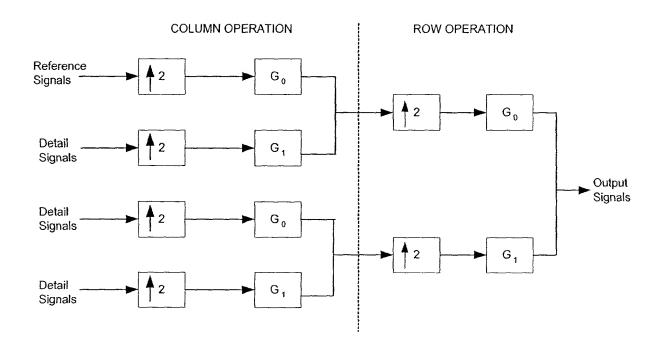


FIG. 6

Q=fix(abs(W)./cr).\*sign(W)

W'=(abs(Q)+0.5).\*cr.\*(sign(Q))

Q: Quantized coefficient

W: Original wavelet coefficient

CR: User defined compression parameter

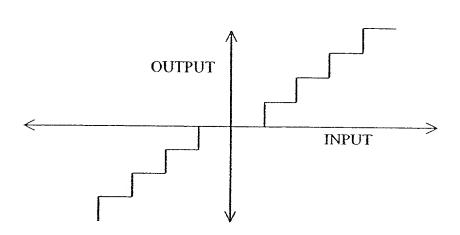
W': De-quantized coefficient

Fix: Truncates value

Abs: returns magnitude of value

Sign: Return the sign of the number,

Returns zero if the value is zero



F16.7

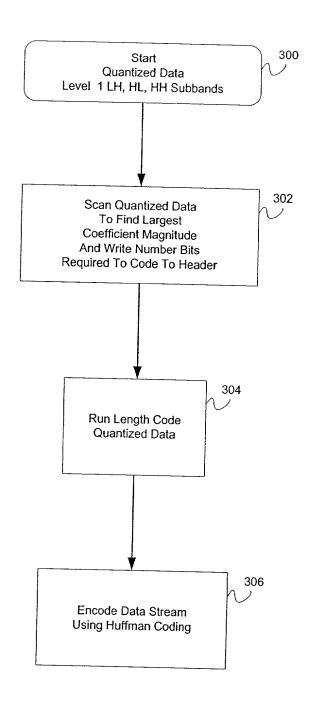


FIG. 8

## Input Data:

## FIG. 9A

## Output Data:

FIG. 9B

Value	Code word
0	0
1	100
-1	101
2	1100
-2	1101
3	11100
-3	11101
4	1111000
-4	1111001
5	11110100
-5	11110101
6	11110110
-6	11110111
7	11111000
-7	11111001
8	111110100
-8	111110101
9	111110110
-9	111110111
10	111111000
-10	111111001
11	111111010
-11	111111011
12	1111111000
-12	1111111001
13	1111111010
-13	1111111011
14	1111111100
-14	1111111101
15	1111111110
esc	1111111111

F1G. 10

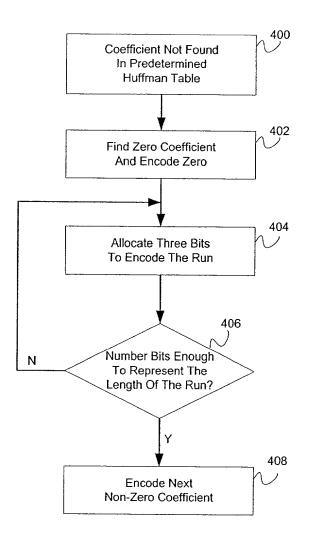


FIG. 11

	D10	D12	D14	D16	D10	D18	D20	D22	
HEADER	0				0				

FIG. 12A

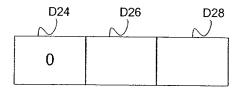


FIG. 12B

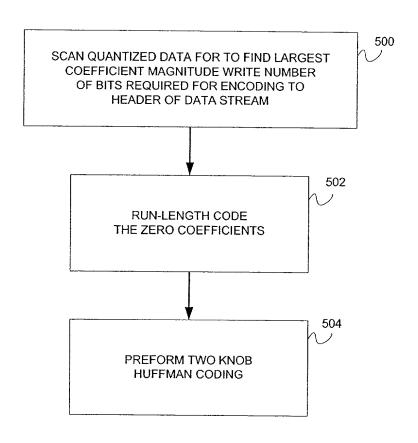


FIG. 13

Value	Code Word		
0 short	00		
0 long	01		
-1	100		
1	101		
-2	1100		
2	1101		
-3	11100		
3	11101		
-4	111100		
4	111101		
-5	1111100		
5	1111101		
-6	1111110		
escape	1111111		

FIG. 14

DC1	AC <sub>1</sub> 1	AC <sub>1</sub> 2	AC <sub>1</sub> 3	AC <sub>1</sub> 4 AC <sub>1</sub> 10
DC2	AC <sub>2</sub> 1	AC <sub>2</sub> 2	AC <sub>2</sub> 3	AC <sub>2</sub> 4 AC <sub>2</sub> 10
DC3	AC <sub>3</sub> 1	AC <sub>3</sub> 2	AC <sub>3</sub> 3	AC <sub>3</sub> 4 ··· AC <sub>3</sub> 10
DC4	AC <sub>4</sub> 1	AC <sub>4</sub> 2	AC <sub>4</sub> 3	AC <sub>4</sub> 4 ··· AC <sub>4</sub> 10
DC5	AC <sub>5</sub> 1	AC <sub>5</sub> 2	AC <sub>5</sub> 3	AC <sub>5</sub> 4 AC <sub>5</sub> 10
DC6	AC <sub>6</sub> 1	AC <sub>6</sub> 2	AC <sub>6</sub> 3	AC <sub>6</sub> 4 AC <sub>6</sub> 10
DC7	AC <sub>7</sub> 1	AC <sub>7</sub> 2	AC <sub>7</sub> 3	AC <sub>7</sub> 4 ··· AC <sub>7</sub> 10
DC8	AC <sub>8</sub> 1	AC <sub>8</sub> 2	AC <sub>8</sub> 3	AC <sub>8</sub> 4 ··· AC <sub>8</sub> 10
DC9	AC <sub>9</sub> 1	AC <sub>9</sub> 2	AC <sub>9</sub> 3	AC <sub>9</sub> 4 AC <sub>9</sub> 10

FIG. 15

$$DC1 \longrightarrow AC_{1}1 \longrightarrow AC_{1}2 \longrightarrow AC_{1}3 \longrightarrow AC_{1}4 \dots AC_{1}10$$

$$DC2 \longrightarrow AC_{2}1 \longrightarrow AC_{2}2 \longrightarrow AC_{2}3 \longrightarrow AC_{2}4 \dots AC_{2}10$$

$$DC3 \longrightarrow AC_{3}1 \longrightarrow AC_{3}2 \longrightarrow AC_{3}3 \longrightarrow AC_{3}4 \dots AC_{3}10$$

$$DC4 \longrightarrow AC_{4}1 \longrightarrow AC_{4}2 \longrightarrow AC_{4}3 \longrightarrow AC_{4}4 \dots AC_{4}10$$

$$DC5 \longrightarrow AC_{5}1 \longrightarrow AC_{5}2 \longrightarrow AC_{5}3 \longrightarrow AC_{5}4 \dots AC_{5}10$$

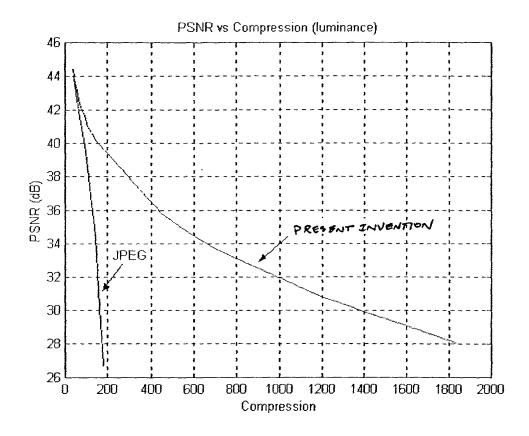
$$DC6 \longrightarrow AC_{6}1 \longrightarrow AC_{6}2 \longrightarrow AC_{6}3 \longrightarrow AC_{6}4 \dots AC_{6}10$$

$$DC7 \longrightarrow AC_{7}1 \longrightarrow AC_{7}2 \longrightarrow AC_{7}3 \longrightarrow AC_{7}4 \dots AC_{7}10$$

$$DC8 \longrightarrow AC_{8}1 \longrightarrow AC_{8}2 \longrightarrow AC_{8}3 \longrightarrow AC_{8}4 \dots AC_{8}10$$

$$DC9 \longrightarrow AC_{9}1 \longrightarrow AC_{9}2 \longrightarrow AC_{9}3 \longrightarrow AC_{9}4 \dots AC_{9}10$$

FIG. 16



F16-17

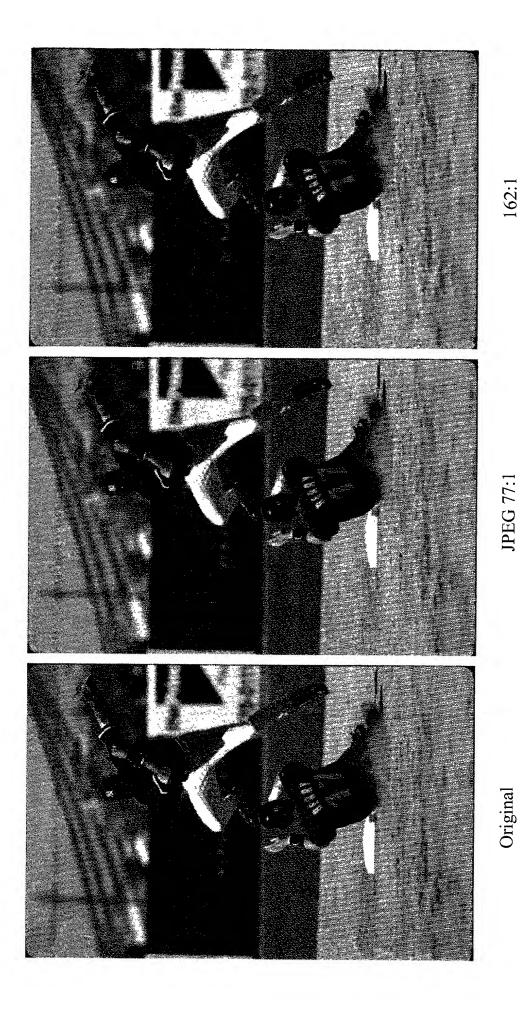


FIG. 18A

FIG. 18B

162:1 FIG. 18C

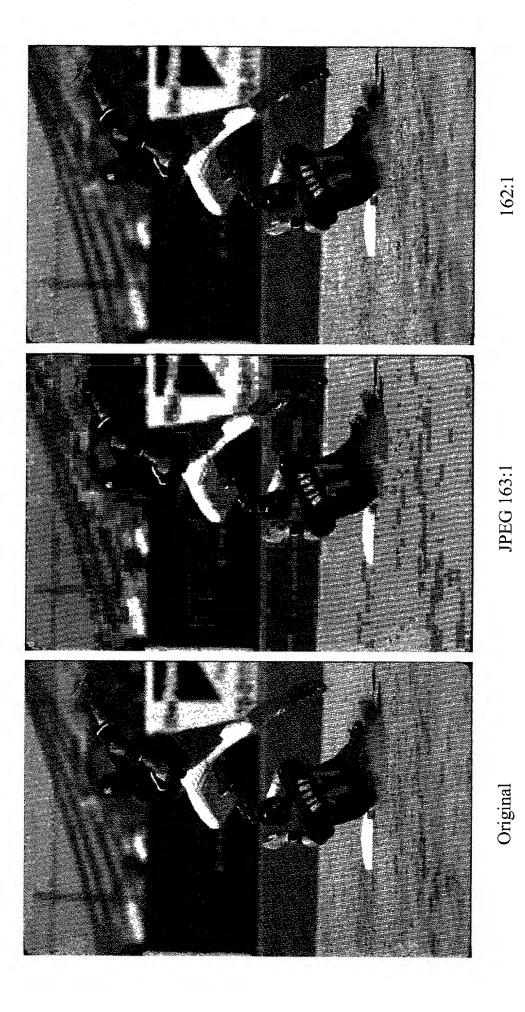


FIG. 19C

FIG. 19A

FIG. 19B